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AMENDED CLAIMS

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1. A device for measuring profiles of a gap between a chuck and a roll in a seamer, said device comprising:

a radiation source adapted to generate radiation;

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a plurality of means for diverting said radiation so as to pass through the gap between the chuck and the roll;

detector adapted to receive said radiation that passed through the profile;

- whereby the profiles of the gap is processed from the detected radiation that passes through the profile.
 - The device as claimed in Claim 1, wherein said radiation is selected from a group consisting of electromagnetic radiation, light radiation or laser light.
 - 3. The device as claimed in Claim 1, further comprising at least one beam expander so as to generate a coherent beam.
- 20 4. The device as claimed in Claim 3, wherein said at least one beam expander is comprised of two lenses that expand the beam with a minimal dissipation.
- 5. The device as claimed in Claim 1, wherein said means for diverting said radiation is selected from a group of diverters such as prism, mirror, lens, or fiber-optic.
- 6. The device as claimed in Claim 1, wherein said plurality of means for diverting the radiation is a first prism that diverts the radiation towards the profile and a second prism that diverts the radiation that passes through the profile.

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7. The device as claimed in Claim 6, wherein said detector and said source are positioned side by side and said first prism and said second prism are positioned in a predetermined distance and opposite to one another so as to form a bypass of said radiation.

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- 8. The device as claimed in Claim 1, further comprising a magnification system adapted to receive said radiation that passes through the profile and transfers it so as to hit said detector.
- 10 9. The device as claimed in Claim 1, wherein said detector is a CCD camera.
 - 10. The device as claimed in Claim 1, wherein the profile to be measured is a distance between the chuck and the roll.

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- 11. The device as claimed in Claim 1, wherein the profile to be measured is the clearance between the chuck and the roll.
- 12. A method for measuring profiles of a gap between a chuck and a roll in a seamer comprising:

providing a radiation source adapted to generate radiation;

providing a first means for diverting said radiation so as to pass through a profile;

providing a second means for diverting said radiation that passes through the profile;

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directing the diverted radiation to a detector;

whereby the profile is processed from the detected radiation that passes through the profile.

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- 13. The method as claimed in Claim 12, wherein said radiation is selected from a group consisting of electromagnetic radiation, light radiation or laser light.
- 5 14. The method as claimed in Claim 12, wherein said first means for diverting and said second means for diverting said radiation are selected from a group comprising diverters such as prism, mirror, lens, or fiberoptic.

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